



(1 of 2)

PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO		Complete If Known	
		Application Number	10/781,801
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	February 20, 2004
		First Named Inventor	Louis B. Rosenberg
		Art Unit	2857
		Examiner Name	Hal D. Wachsman
		Attorney Docket Number	IMMR038/06US
Sheet	1	of	3

U.S. PATENT DOCUMENTS						
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS	SUBCLASS
<i>W</i>		6,422,941	7/23/2002	Thorne et al.	463	70
<i>W</i>		6,160,489	12/12/2000	Perry et al.	390	7.6
<i>W</i>		6,111,577	8/29/2000	Zilles et al.	715	701
<i>W</i>		5,690,582	11/25/1997	Ulrich et al.	482	9
<i>W</i>		5,575,761	11/19/1996	Hajianpour	601	48
<i>W</i>		5,437,607	8/1/1995	Taylor	601	49
<i>W</i>		5,436,622	7/25/1995	Gutman et al.	390	7.6
<i>W</i>		5,283,970	2/8/1994	Aigner	42	57
<i>W</i>		5,186,695	2/16/1993	Mangseth et al.	482	6
<i>W</i>		5,175,459	12/29/1992	Danial et al.	310	81
<i>W</i>		5,165,897	11/24/1992	Johnson	439	113
<i>W</i>		5,022,384	6/11/1991	Freels	601	57
<i>W</i>		4,885,565	12/5/1989	Embach	390	407.2
<i>W</i>		4,484,191	11/20/1984	Vavra	390	965
<i>W</i>		4,464,117	8/7/1984	Foerst	439	62
<i>W</i>		4,333,070	6/1/1982	Barnes	390	439
<i>W</i>		4,262,549	4/21/1981	Schwellenbach	79	82
<i>W</i>		4,127,752	11/28/1978	Lowthorp	200	5A
<i>W</i>		2,972,140	2/14/1961	Hirsch	390	407.2

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS	SUBCLASS
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
<i>W</i>		JP	H2-185278	7/19/1990	Taito Corporation	463	70
<i>W</i>		JP	H4-8381	1/13/1992	Epoch Co. and Key- Planning Co.	—	—
<i>W</i>		JP	H7-24147	1/27/1995	Sega Corporation	—	—
<i>W</i>		JP	H5-192449	8/3/1993	Taito Corporation	—	—

Examiner Signature	<i>Hal D. Wachsman</i>	Date Considered	2-12-05
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Sheet **2** of **3****Complete if Known**

Application Number	10/781,801
Filing Date	February 20, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2857
Examiner Name	Hal D. Wachsman
Attorney Docket Number	IMMR038/06US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>HW</i>		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.
<i>HW</i>		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.
<i>HW</i>		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.
<i>HW</i>		BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.
<i>HW</i>		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.
<i>HW</i>		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," <i>PRESENCE</i> , 4(4):387-402, Harvard Univ., 1995. <i>Non-patent</i>
<i>HW</i>		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992. <i>Non-patent</i>
<i>HW</i>		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," <i>DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1</i> , ASME 1994. <i>Non-patent</i>
<i>HW</i>		GOBEL et al., "Tactile Feedback Applied to Computer Mice," <i>International Journal of Human-Computer Interaction</i> , Vol. 7, No. 1, pp. 1-24, 1995. <i>Non-patent</i>
<i>HW</i>		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.
<i>HW</i>		"Cyberman Technical Specification," <i>Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide</i> , 4/5/1994.
<i>HW</i>		OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.
<i>HW</i>		KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414; <i>no date</i> .
<i>HW</i>		LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html , 1994. <i>Non-patent</i>
<i>HW</i>		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).

Examiner
Signature*Hal Wachsman*Date
Considered*2-12-05*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/781,801
		Filing Date	February 20, 2004
		First Named Inventor	Louis B. Rosenberg
		Art Unit	2857
		Examiner Name	Hal D. Wachsman
Sheet 3 of 3	Attorney Docket Number	IMMR038/06US	

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<i>HW</i>		"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).	
<i>HW</i>		SCANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994	
<i>HW</i>		NOLL, "Man-Machine Tactile," <i>SID Journal</i> , July/August 1972 Issue.	
<i>HW</i>		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.	

Examiner Signature	<i>Hal D. Wachsman</i>	Date Considered	2-12-05
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Sheet 1 of 4

Complete if Known

Application Number	10/781,801
Filing Date	February 20, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2857
Examiner Name	Hal D. Wachsman
Attorney Docket Number	IMMR038/06US

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Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		Number	Kind Code ² (if known)			
HW		5,642,469		06/1997	Hannaford et al.	200
HW		5,629,594		05/1997	Jacobus et al.	318
HW		5,587,937		12/1996	Massie et al.	703
HW		5,461,797		10/1995	Royer et al.	33
HW		5,459,382		10/1995	Jacobus et al.	318
HW		5,396,266		03/1995	Brimhall	257
HW		5,275,565		01/1994	Moncrief	434
HW		5,262,777		11/1993	Low et al.	341
HW		5,182,557		01/1993	Lang	341
HW		5,178,012		01/1993	Culp	73
HW		4,983,786		01/1991	Stevens et al.	178
HW		4,949,119		08/1990	Moncrief et al.	703
HW		4,945,305		07/1990	Blood	324
HW		4,942,545		07/1990	Sapla	702
HW		4,934,694		06/1990	McIntosh	482
HW		4,907,973		03/1990	Hon	434
HW		4,891,764		01/1990	McIntosh	700
HW		4,849,692		07/1989	Blood	324
HW		4,839,838		06/1989	LaBiche et al.	708
HW		4,713,007		12/1987	Alban	963
HW		4,708,656		11/1987	de Vries et al.	434
HW		4,703,443		10/1987	Mortyasu	702
HW		4,632,341		12/1986	Repperger et al.	244
HW		4,599,070		07/1986	Hladky et al.	484
HW		4,550,617		11/1985	Fraignier et al.	73
HW		4,477,973		10/1984	Davies	33
HW		4,160,508		07/1979	Salisbury, Jr.	414
HW		3,623,064		11/1971	Kagan	340

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
HW		WIPO	WO9616397		05/1996			
HW		WIPO	WO9622591		07/1996			
HW		WIPO	WO9642078		12/1996			

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			Cl. Int.	Subst.
<i>HW</i>		JP	434610		02/1992		<i>Cl. Int.</i>	<i>Subst.</i>
<i>HW</i>		UK	2254911A		10/1992		<i>Cl. Int.</i>	<i>Subst.</i>

Examiner Signature	<i>Hal D. Wachsman</i>	Date Considered	2-12-04
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JW		Smith, Geoffrey, "Call It Palpable Progress," Business Week, Oct. 9, 1995, pp. 93, 96.	
JW		"Proceedings of the IFIP Congress 65," International Federation for Information Processing, Information Processing 1965, vol. 3, New York, May 24-29, 1965, p. 506.	
JW		Ouh-Young, Ming, "Force Display in Molecular Docking," Chapel Hill 1990, pp. 1-85 (no date with month).	
JW		Wilker, Steven F. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size and Vibrotactile Display Resolution," Proceedings of the Human Factors Society 35 th Annual Meeting 1991, pp. 708-712 (no date with month).	
JW		Krueger, Myron W., "Artificial Reality 1988", pp. 54-75 (no date with month).	
JW		Iwata, Hiroo, "Pen-based Haptic Virtual Environment," Institute of Engineering Mechanics, University of Tsukuba, Japan, pp. 287-292 (no date).	
JW		Schmult, Brian et al., "Application Areas for a Force-Feedback Joystick," ASME 1993, DSC-vol. 49, pp. 47-54 (no date with month).	
JW		Howe, Robert D., "Task Performance with a Dextrous Teleoperated Hand System," Proceedings of SPIE, Nov. 1992, vol. 1833, pp. 1-9.	
JW		Snow, E. et al., "Compact Force-Reflecting Hand Controller," JPL, Apr. 1991, vol. 15, No. 3, Item No. 153, pp. 1-15a.	
JW		Kotoku, Tetsuo, "A Predictive Display with Force Feedback and Its Application to Remote Manipulation System with Transmission Time Display," IEEE 1992, Jul. 7-10, 1992, pp. 239-246.	
JW		Tan, Hong Z. et al., "Human Factors for the Design of Force-Reflecting Haptic Interfaces," Tan, Srinivasan, Eberman, & Chang, ASME WAM 1994, pp. 1-11. (No date with month).	
JW		Colgate J. Edward et al., Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces, Sep. 22, 1993.	
JW		Iwata, Hiroo et al, Volume Haptization, IEEE 1993, pp. 16-18. (No date with month).	
JW		Rosenberg, Louis B., "The Use of Virtual Fixtures as Perceptual Overlays to Enhance Operator Performance in Remote Environments," Air Force Material Command, Sep. 1992, pp. 1-42.	
JW		Burdea, Grigore et al., "A Portable Dextrous Master with Force Feedback," Presence: Teleoperators and Virtual Environments, MIT Press, Jun. 1991.	
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<i>HW</i>		Burdea, Grigore et al., "Dextrous Telerobotics with Force Feedback-An Overview," Robotica, 1991, vol. 9. (No date with month).	
<i>HW</i>		Yamakita, M. et al., Tele-Virtual Reality of Dynamic Mechanical Model, IEEE Jul. 7-10, 1992, pp. 1103-1110.	
<i>HW</i>		Adelstein, Bernard D. et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, pp. 1-24. (No date with month).	
<i>HW</i>		Kim, Won S. et al., "Graphics Displays for Operator Aid in Telemanipulation," IEEE 1991, pp. 1059-1067. (No date with month).	
<i>HW</i>		Kim, Won S. et al., "A Teleoperation Training Simulator with Visual and Kinesthetic Force Virtual Reality", Human Vision, Visual Proceedings, Proc. SPIE 1666, San Jose, CA, Feb. 1992.	
<i>HW</i>		Minsky, Margaret et al., "Feeling and Seeing: Issues in Force Display," ACM 1990, pp. 235-242. (No date with month).	
<i>HW</i>		Atkinson, William D. et al, "Computing with Feeling," Comput. & Graphics, vol. 2, No. 2-E, pp. 97-103. (No date).	
<i>HW</i>		Ouh-young, Ming et al., "Using a Manipulator for Force Display in Molecular Docking," IEEE 1988, pp. 1824-1829.	

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